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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/031,184      | 01/16/2002  | Edward E Beeles      | HISHE-56781         | 2542             |

7590

10/09/2003

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EXAMINER

SAETHER, FLEMMING

| ART UNIT | PAPER NUMBER |
|----------|--------------|
|----------|--------------|

3679

DATE MAILED: 10/09/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application N .

10/031,184

Applicant(s)

BEELES ET AL.

Examiner

Flemming Saether

Art Unit

3679

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 16 January 2002.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-35 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-35 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 7-10, 13-17, 20-23, 27, 28 and 31-35 are rejected under 35 U.S.C. 102(b) as being anticipated by Briles (US 3,550,498). Initially, it should be noted that although Briles shows a nut, it is disclosed “the invention may be embodied in a swage-collar type of nut in the same manner as in the threaded type of nut” (column 9, line 44-45). In that regard, Briles discloses a swage fastener system comprising a pin (54) and a collar (12). The pin includes a threaded (60) and non-threaded portion (56, 58). The collar includes an outwardly flared end portion (20) and a main central bore (at 24) with a shoulder having a larger diameter receiving a sealing insert (16). The sealing insert is deformable so that upon installation it interfaces with the unthreaded and threaded portion of the pin and a workpiece to form a seal (see Fig. 4). The nut is made of a metal and since it discloses a “swage” collar, by definition it would be deformable. Lastly, Briles disclose the sealing insert to be made of tetrafluoroethylene (TEFLON, column 7 line 69).

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 3679

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 26-28, 31, 33 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Briles on view of Armour (US 3,066,568). As described above, Briles discloses a swage collar and associated pin but, is not specific on the swaging process. Even though swaging processes are well known as discussed in the "Background of the Invention", Armour is used to show the process therein a collar (20) having an internal diameter larger than a pin is positioned on the pin then plastically deformed inwardly to engage the shaft of the pin (Fig 2) by swaging tool (24). At the time the invention was made, it would have been obvious for one of ordinary skill in the art to swage the collar onto the pin in Briles by a process as disclosed in Armour for its recognized efficiency.

Claims 5, 6, 18, 19, 39 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Briles or Briles in view of Armour as applied to claims 1, 4, 13, 17, 27 and 28 above, and further in view of Rath (US 4,768,910). Briles, alone or in view of Armour, does not disclose the collar made of aluminum or titanium. Rath discloses a swage collar and teaches it could be made of aluminum or titanium (column 2, line 61-64). At the time the invention was made, it would have been obvious for one of ordinary skill in the art to make the collar of Briles out of aluminum or titanium as disclosed in Rath in order to make the collar lighter and stronger respectively. Lighter and stronger collars would be desirable in applications such as aerospace.

Claims 11, 12, 24 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Briles as applied to claims 1, 2, 13 and 15 above, and further in view of Breed (US 3,399,589). Briles does not disclose the sealing insert secured to the Collar by complementary rounded flange and groove. Breed discloses a sealing insert secured to nut member by a complementary rounded groove and flange (72). At the time the invention was made, it would have been obvious for one of ordinary skill in the art to provide the seal insert and collar of Briles with a complementary rounded groove and flange as disclosed in Breed in order to provide better securement of the seal insert within the collar. The better securement would help prevent the seal insert from coming loose and possibly detached.

### ***Conclusion***

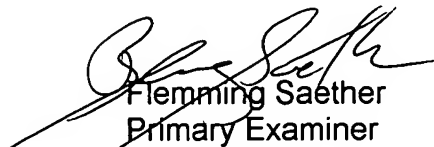
The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Flemming Saether whose telephone number is 703-308-0182. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne Browne can be reached on 703-308-1159. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-2168.



Flemming Saether  
Primary Examiner  
Art Unit 3679